

Claims

1. A tool support provided for machining a work piece on the working spindle of a lathe, characterized by
 - a basic structure;
 - a slide mounted on that basic structure which is displaceable in a controlled manner transversely to the spindle axis along an axis (Y);
 - two tool holders mounted parallelly to each other on that slide for holding different tools, that holders being displaceable in an angle 90° with respect to the direction of movement of the slide individually or selectively with respect to the spindle axis along an axis (X) into the working position and out of this working position and out of this working position respectively, and
 - driving means for displacing the slide and the tool holders sequentially or simultaneously along their axis of movement (Y resp. X) into a predetermined working position.
2. Tool supporting according to claim 1, characterized in that said basic structure is adjustable along an axis (Z) which is parallel to said spindle axis.
3. Tool support according to claim 2, characterized in that said basic structure can be mounted on a tool slide which is displaceable along said spindle axis.
4. Tool support according to claim 1, characterized in that said driving means comprise a common motor having shaft driving on the one hand a rotatable control lever

having an inner control cam surface, the movement of said lever causing the displacement of the slide between end stops and on the other hand is provided with two cam disks, which selectively displace the one or the other tool holder into working position.

5. Tool support according to claim 4, characterized in that said end stops are individually positionable into a desired position.

6. Tool support according to claim 4 or 5, characterized in that the motor shaft can be rotated departing from a middle position in both rotating directions by up to 180°.

7. Tool support according to any of claims 1 to 6, characterized in that said driving means are computer-controlled.

8. Tool support according to any of claims 1 to 7, characterized in that said tool holders are movable into their working position against a resetting force, e.g. against a spring force.

9. Tool holder according to claim 4 and 8, characterized in that the follower for the motor drive of the rotatable control lever can be further displaced against a resetting force after said slide has reached one of the end positions.

10. Tool support in accordance with claim 7, characterized in that said drive means are coupled with measuring systems.

11. A lace equipped with tool supports in accordance with any of claims 1 - 10, characterized in that a plurality of

tool supports are arranged around the working spindle, preferably in a star-shaped manner with angular distances of 120° whereby each tool support is equipped with own driving means for its displaceable components.

12. Tool support in accordance with the head clause of claim 1, characterized in that it is equipped with a motor controlled lever rotatable about an axis having a free end with a turret head for tools.